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## **OBESITY GENE AND USE THEREOF**

## ABSTRACT OF THE DISCLOSURE

The present invention relates generally to the field of human genetics. Specifically, the present invention relates to methods and materials used to isolate and detect a human obesity and diabetes predisposing gene, specifically the *TBC1D1* gene, some mutant alleles of which cause susceptibility to obesity and/or diabetes. More specifically, the invention relates to germline mutations in the *TBC1D1* gene and their use in the diagnosis of predisposition to obesity and diabetes. Finally, the invention relates to the screening of the *TBC1D1* gene for mutations/alterations, which are useful for diagnosing the predisposition to obesity.

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